



Occurrence Details

Occurrence Number: 115I 128

Occurrence Name: Gran

Occurrence Type: Hard-rock

Status: Anomaly

Date printed: 6/15/2025 10:27:07 AM

General Information

Secondary Commodities: copper

Aliases: Copper, Carmacks North

Deposit Type(s): Porphyry Cu-Mo-Au

Location(s): 62°21'54" N - -136°44'29" W

NTS Mapsheet(s): 115I07

Location Comments: Occurrence location marks approximate position of proposed northeast drill hole.

Hand Samples Available: No

Last Reviewed: Apr 8, 2016

Capsule

WORK HISTORY

The area surrounding the occurrence was explored in the 1970's and 80's as part of a large regional exploration play associated with the discovery of the Capstone Mining Corp's Minto (Minfile Occurrences #115 I 21 & 22) and Copper North Mining Corp's Carmacks Copper (Minfile Occurrence #115I 008) deposits. The actual occurrence location may have been enclosed within Western Copper Corporation's WC or War claims however it appears the area was staked primarily to protect access and provide a buffer around the Carmacks Copper deposit.

Staked as Copper cl 1-22 (YC46762) in Apr/2006 by S. Ryan. In Aug/2006 Ryan collected a series of Mobile Metal Ion (MMI) and conventional deep (~ 1 m) auger soil samples across the northwest-central portion of the claim block. In Nov/2006 Ryan optioned the Copper claims and 14 other neighboring claim groups to BCGold Corp in return for cash, shares and certain work commitments.

In Apr/2007 BCGold flew a regional airborne magnetic and radiometric survey over their claim holdings and staked Copper cl 23-46 (YC60140) to the south and northwest. Later in the year the company completed a Mobile Metal Ion (MMI) soil sampling program over the central portion of the northwest branch of the claim block and on the west side of the main group of claims. In 2008 BCGold Corp carried out an induced polarization geophysical survey over the north portion of the main group of claims. The following year the company carried out geological mapping, prospecting and rock and soil sampling programs over the entire claim block.

In Jul/2010 BCGold accelerated the final payment under its property option agreement with Ryan and secured a 100% interest in the Copper and 15 other claim blocks optioned from Ryan. In Apr/2014 BCGold allowed the Copper claim block to lapse.

Restaked within WC cl 1-72 (YF20701) in Jul/2014 by B. Harris. Harris also staked Hoo cl 1-28 (YF20773) and cl 35-46 (YF46387) to the west and WCF cl 1-6 (YF46407) to the east and south at the same time. Harris incorporated the claims into his larger Stu property.

GEOLOGY

The area is located southeast of Nancy Lee Creek, approximately 3 km northwest of Copper North Mining Corp's Carmacks Copper deposit (Minfile Occurrence 115I 008). Access is currently obtained by helicopter or by ATV using various rough drill roads running north from the Carmacks Copper deposit.

The area is underlain by Late Triassic to Early Jurassic granodiorite assigned to the Granite Mountain batholith. The batholith intrudes Yukon-Tanana terrane basement rocks along its southwest margin and is faulted against Stikina rocks to the northeast along the Hoochekoo fault. To the northwest, the batholith is overlain by mafic to intermediate volcanic rocks of the Upper Cretaceous Carmacks Group and to the southeast; the Miller fault juxtaposes Carmacks Group volcanic rocks against the batholith. The Granite Mountain batholith is intruded by dacite dikes related to the Lower Cretaceous Mt. Nansen Group volcanics and by feeder dikes of the overlying Carmacks Group volcanic rocks. Broadly, the batholith is composed of a western Early Jurassic Long Lake suite part and an eastern latest Triassic to Early Jurassic Minto suite part; the contact between the two is poorly understood.

Rock exposure on the Copper claims is estimated to be less than 5%. BCGold states that the Copper claims are underlain by granodiorite assigned of the Granite Mountain batholith. The granodiorite is moderately to strongly foliated and cut by dacite dikes and unconformably overlain by scattered outcrops of younger basaltic flows assigned to the Upper Cretaceous Carmacks Group. Traces of malachite, magnetite and 1-2% epidote were noted in a number of locations

BCGold has not released very much written information regarding the Copper claims. Diagrams based on the airborne magnetic and radiometric surveys and released by the company on their website show that on the Copper claims the granodiorite is overlain by significant amounts of Carmacks Group rock cover. Results of the airborne magnetic survey also outlined 6 magnetic lineaments crossing the claim block. Mobile Metal Ion soil sampling has outlined a series of elevated to anomalous copper values along the west half of the main block of claims. The IP survey outlined a strong chargeability anomaly in the northeast corner of the main claim block. The company has outline 6 potential diamond drill hole locations designed to test various anomalies.

The occurrence location marks the approximate location of a proposed northeast drill hole which was designed to test a coincident IP chargeability and magnetic high anomaly that possesses elevated copper soil values.

According to compilation geology report contracted by Harris (James, 2016), a 1980's soil survey conducted by United Keno Hill Mines Ltd detected a 500 m long by 230 – 300 m wide copper soil anomaly (named Gran/Zone 3) immediately west-southwest of the proposed drill hole. Western Copper Corp (forerunner to Copper North Corp) appears to have detected a moderate to strong copper anomaly in the same area. Although assay certificates can be found, the original location maps cannot be located.

Harris has not yet carried out any significant field work in the vicinity of the occurrence or any of the other recently staked claims.

Work History

Date	Work Type	Comment
12/31/2009	Geology	Entire claim block.
12/31/2009	Geochemistry	Also rock sampling.
12/31/2009	Other	
12/31/2008	Ground Geophysics	
12/31/2007	Geochemistry	MMI sampling on central portion of northwest branch of claim block and west side of main claim group.
12/31/2007	Airborne Geophysics	Also flew radiometric survey.
12/31/2006	Geochemistry	Deep auger (~ 1 m) and Mobile Metal Ion sampling.
12/13/1972	Airphotography	
12/13/1972	Geology	
12/13/1972	Other	
12/13/1972	Geochemistry	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095198	2008	2009 Geophysical Report on the COPPER Property	IP - Ground Geophysics, Line Cutting - Other		
094984	2007	Assessment Report on the WS TOTAL Claims Target Evaluation Program	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other		
094996	2007	2007 Assessment Report for the CARMACKS COPPER Project	All Weather Road - Development, Surface, Diamond - Drilling, IP - Ground Geophysics, Line Cutting - Other, Prospecting - Other	122	17830
093083	1992	Biophysical Assessment Report of Williams Creek	Silt - Geochemistry, Water - Geochemistry, Data Compilation - Pre-existing Data, Biophysical Mapping - Studies, Environmental Assessment/Impact - Studies, Heritage/Archeological - Studies		
090929	1981	1981 Geological and Geochemical Report on the NOON Claim Group	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Soil - Geochemistry, Regional Bedrock Mapping - Geology, Petrographic - Lab Work/Physical Studies, Line Cutting - Other		
060114	1972	Report on 1972 Geochemical Diamond Drilling and Trenching Program-WILLIAMS CREEK Property	Interpretation - Airphotography, Diamond - Drilling, Drill Core - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Line Cutting - Other, Mechanical - Trenching	8	1530.71

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC00472 Z	Residual gravity maps - Gran claim block		Property File Collection	Geophysical Map
ARMC01118 g	Magnetometer survey map - Gamma values - Gran claims		Property File Collection	Geophysical Map
ARMC01117 3	Geochemical values map - Gran claims		Property File Collection	Geochemical Map
YEG2009 11	Bedrock geology of southwest McQuesten (NTS 115P) and part of northern Carmacks (NTS 115I) map area	p. 159-184.	Yukon Geological Survey	Annual Report Paper
2006-1	Tectonic assemblage map of Yukon-Tanana and related terranes in Yukon and northern British Columbia (1:1 000 000 scale)		Yukon Geological Survey	Open File (Geological - Bedrock)
YEG2003 21	Early Jurassic porphyry(?) copper (-gold) deposits at Minto and Williams Creek, Carmacks Copper Belt, western Yukon	p. 289-303.	Yukon Geological Survey	Annual Report Paper
YEG2015 13	Copper-gold ± silver mineralization at the Stu occurrence, central Yukon (Yukon MINFILE 115I 011)	p. 207-222.	Yukon Geological Survey	Annual Report Paper
YEG2007 O V	Yukon Exploration and Geology Overview 2007	p. 25.	Yukon Geological Survey	Annual Report
YEG2008 O V	Yukon Exploration and Geology Overview 2008	p. 33.	Yukon Geological Survey	Annual Report
YEG2009 O V	Yukon Exploration and Geology Overview 2009	p. 46.	Yukon Geological Survey	Annual Report